



The diagram illustrates a network architecture with three main host groups:

- SECURE HOST 1G**: Contains a **SECURITY PROXY 3A** and a **METERING SERVER 3C**. These two components are connected by a bidirectional arrow.
- PUBLIC HOST 1F**: Contains a **WEB SERVER 3B** and a **CONTROL SERVER 3D**. These two components are connected by a bidirectional arrow.
- DATABASE HOST 1H**: Contains a **DATA 3G** (represented as a cylinder) and a **DATABASE SERVER 3F**. These two components are connected by a bidirectional arrow.

External connections and internal flows:

- COMMUNICATION TO CLIENT 1A**: Indicated by a lightning bolt symbol pointing to the **SECURITY PROXY 3A**.
- REPORTING APPLICATION 3E**: Located at the bottom, it has a bidirectional connection with the **CONTROL SERVER 3D**.
- Internal Connections**:
  - A bidirectional arrow connects **SECURITY PROXY 3A** and **WEB SERVER 3B**.
  - A bidirectional arrow connects **METERING SERVER 3C** and **CONTROL SERVER 3D**.
  - A bidirectional arrow connects **CONTROL SERVER 3D** and **DATABASE SERVER 3F**.
  - A unidirectional arrow points from **DATABASE SERVER 3F** to **METERING SERVER 3C**.

The diagram shows a dashed rectangular boundary representing the **CLIENT COMPUTER 1A**. Inside the boundary, there are four main components: **METERING MONITOR 4A** (a rectangle), **LOGIN TOOL 4B** (a rectangle), **CLIENT APPLICATION 4C** (a stack of three rectangles), and **CONFIG FILE 4D** (a cylinder). Bidirectional arrows connect **METERING MONITOR 4A** and **LOGIN TOOL 4B**. Bidirectional arrows connect **METERING MONITOR 4A** and **CLIENT APPLICATION 4C**. A bidirectional arrow connects **LOGIN TOOL 4B** and **CONFIG FILE 4D**. A single-headed arrow points from **CONFIG FILE 4D** to **CLIENT APPLICATION 4C**. A single-headed arrow points from **CONFIG FILE 4D** to **METERING MONITOR 4A**. Outside the boundary on the left, a lightning bolt symbol is labeled **COMMUNICATION TO BILLING SITE 1J**. A bracket at the bottom right of the dashed boundary is labeled **CLIENT COMPUTER 1A**.

**Fig. 4**

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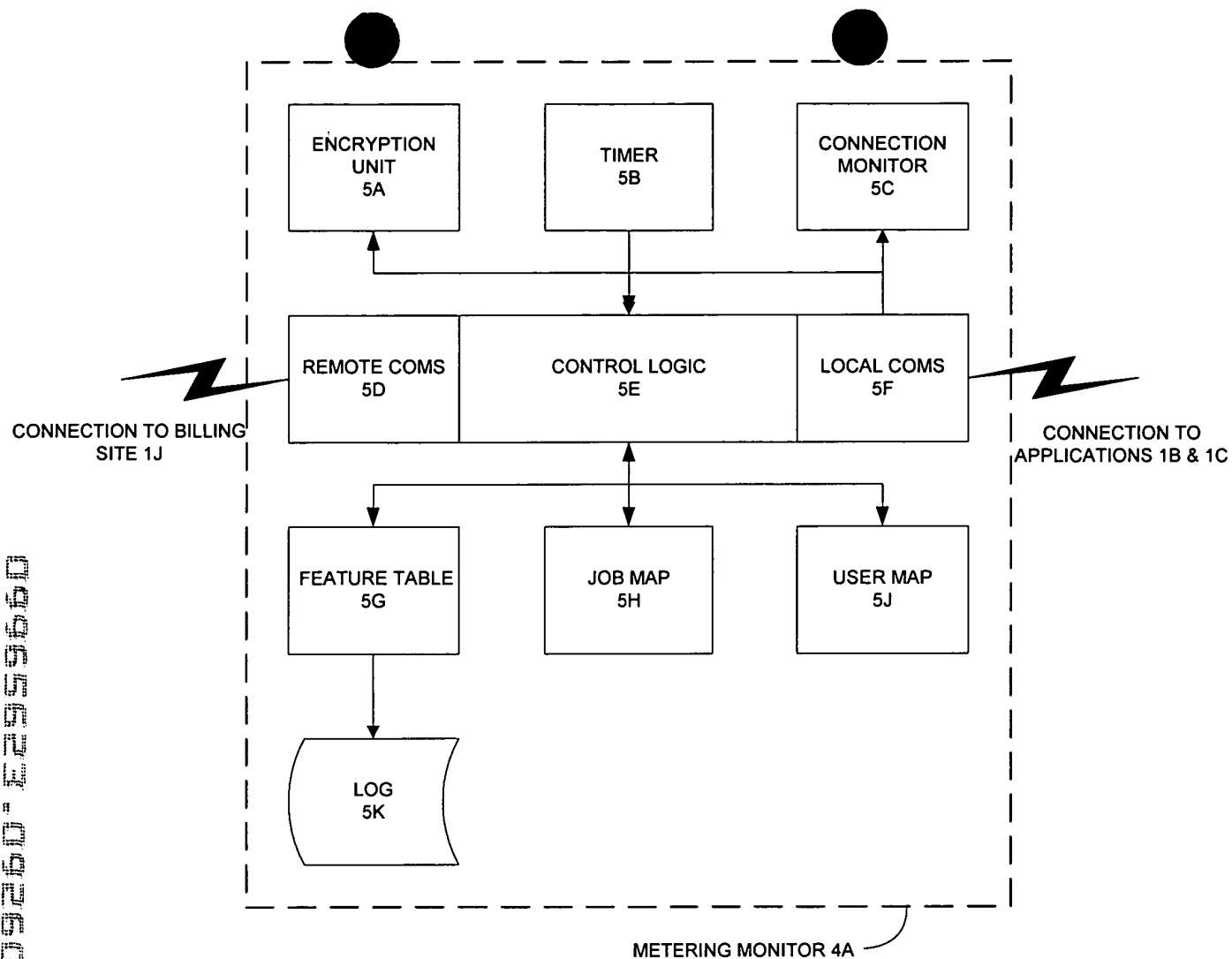


Fig. 5.

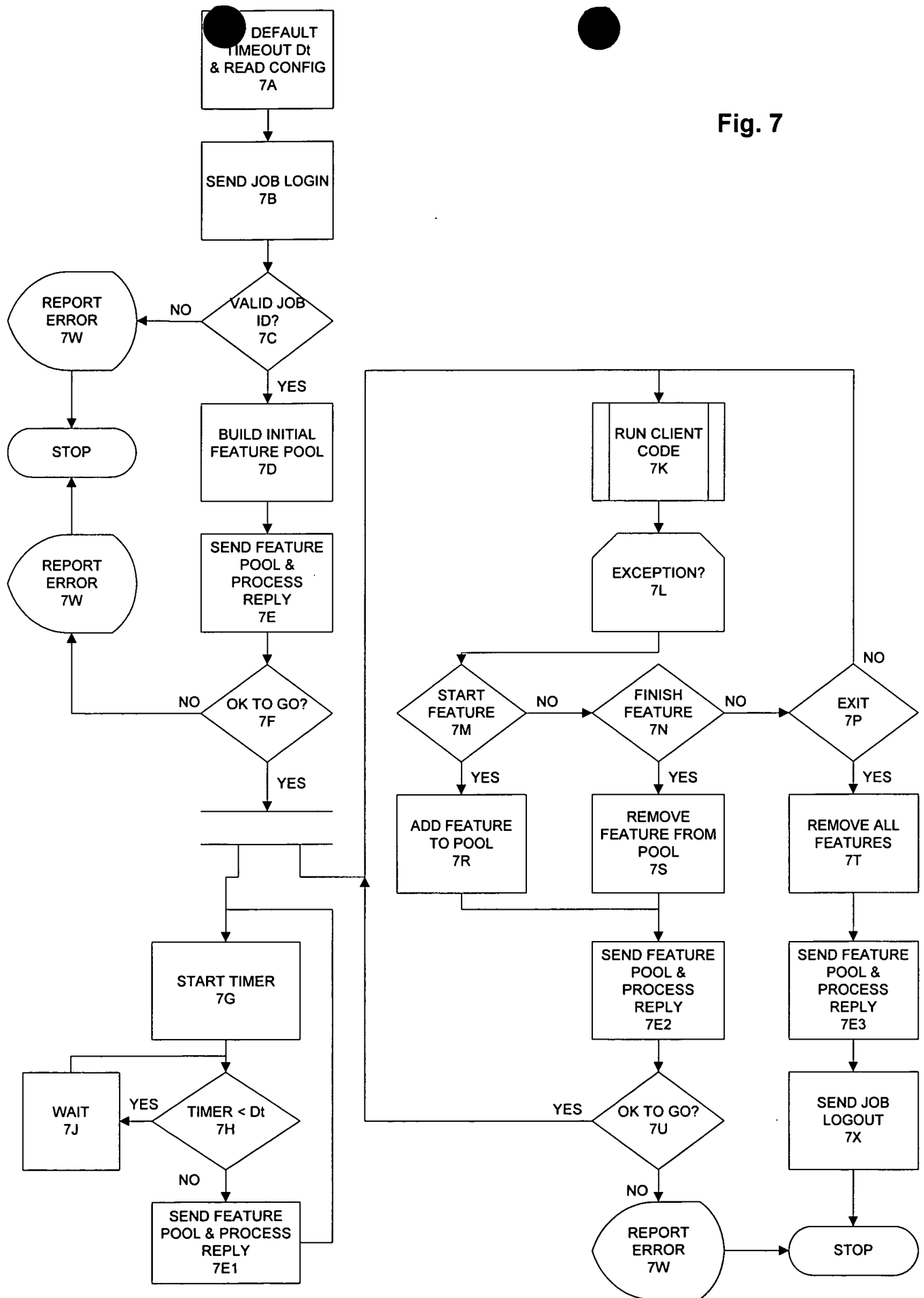
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graph TD
    6A[INITIALIZE LOGIN TOOL 6A] --> 6B{CONFIG FILE? 6B}
    6B -- YES --> 6C[/READ CONFIG FILE 6C/]
    6B -- NO --> 6D[/INITIALIZE WITH DEFAULTS 6D/]
    6C --> 6E{MONITOR? 6E}
    6D --> 6E
    6E -- NO --> 6F[START MONITOR 6F]
    6E -- YES --> 6G[/USER INPUT 6G/]
    6F --> 6G
    6G --> 6H{CONFIG CHANGE? 6H}
    6H -- YES --> 6T[/INPUT CONFIG 6T/]
    6T --> 6U[/WRITE CONFIG 6U/]
    6U --> 6V[KILL MONITOR 6V]
    6V --> 6A
    6H -- NO --> 6K{LOGIN? 6K}
    6K -- YES --> 6L[SEND LOGIN TO MONITOR 6L]
    6K -- NO --> 6M{LOGOUT? 6M}
    6M -- YES --> 6N[SEND LOGOUT TO MONITOR 6N]
    6M -- NO --> 6P{EXIT? 6P}
    6L --> 6R{OK? 6R}
    6N --> 6R
    6P -- YES --> 6Q([STOP 6Q])
    6R -- YES --> 6Q
    6R -- NO --> 6S([DISPLAY ERROR 6S])
    6S --> 6G

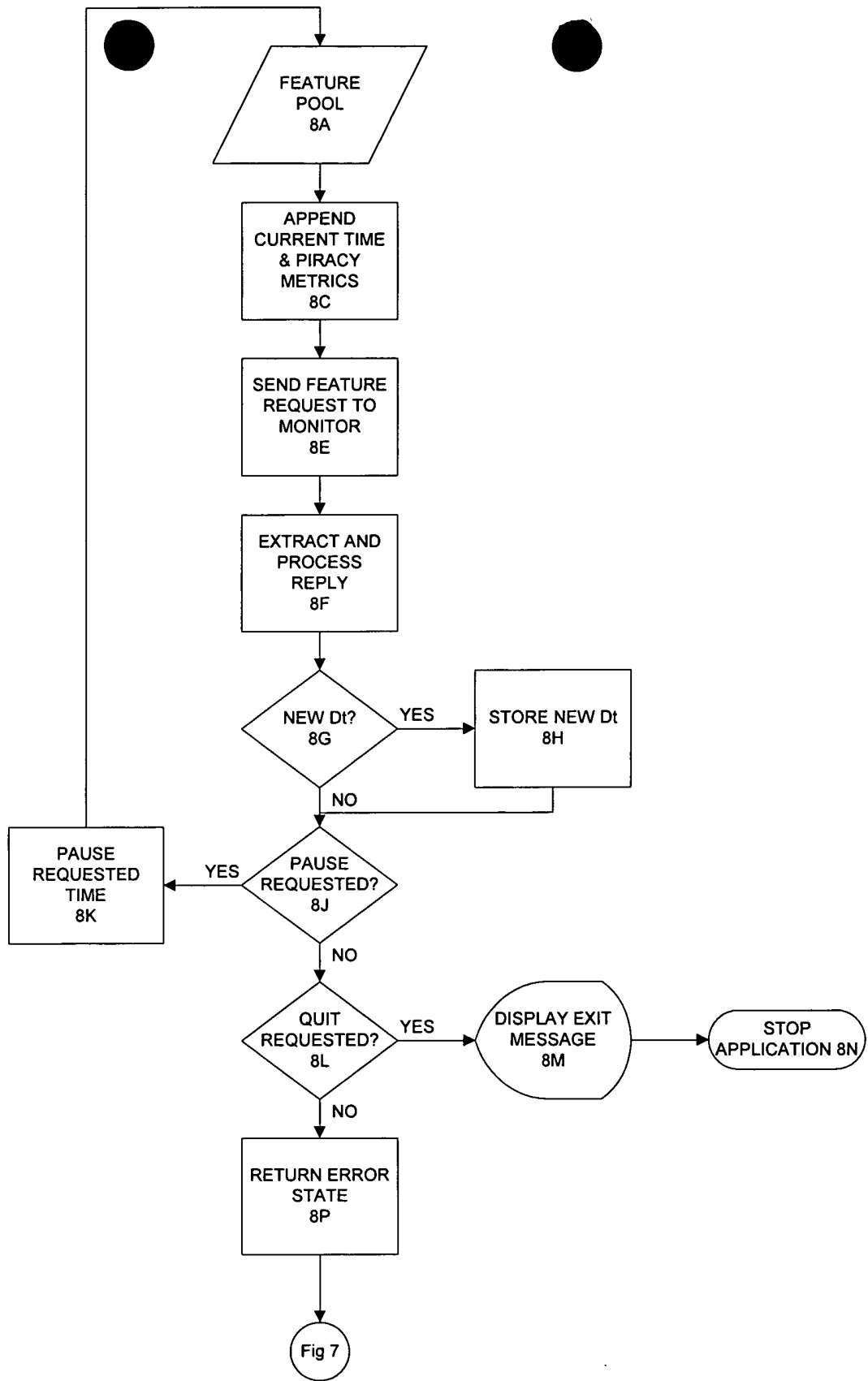
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**Fig. 6**

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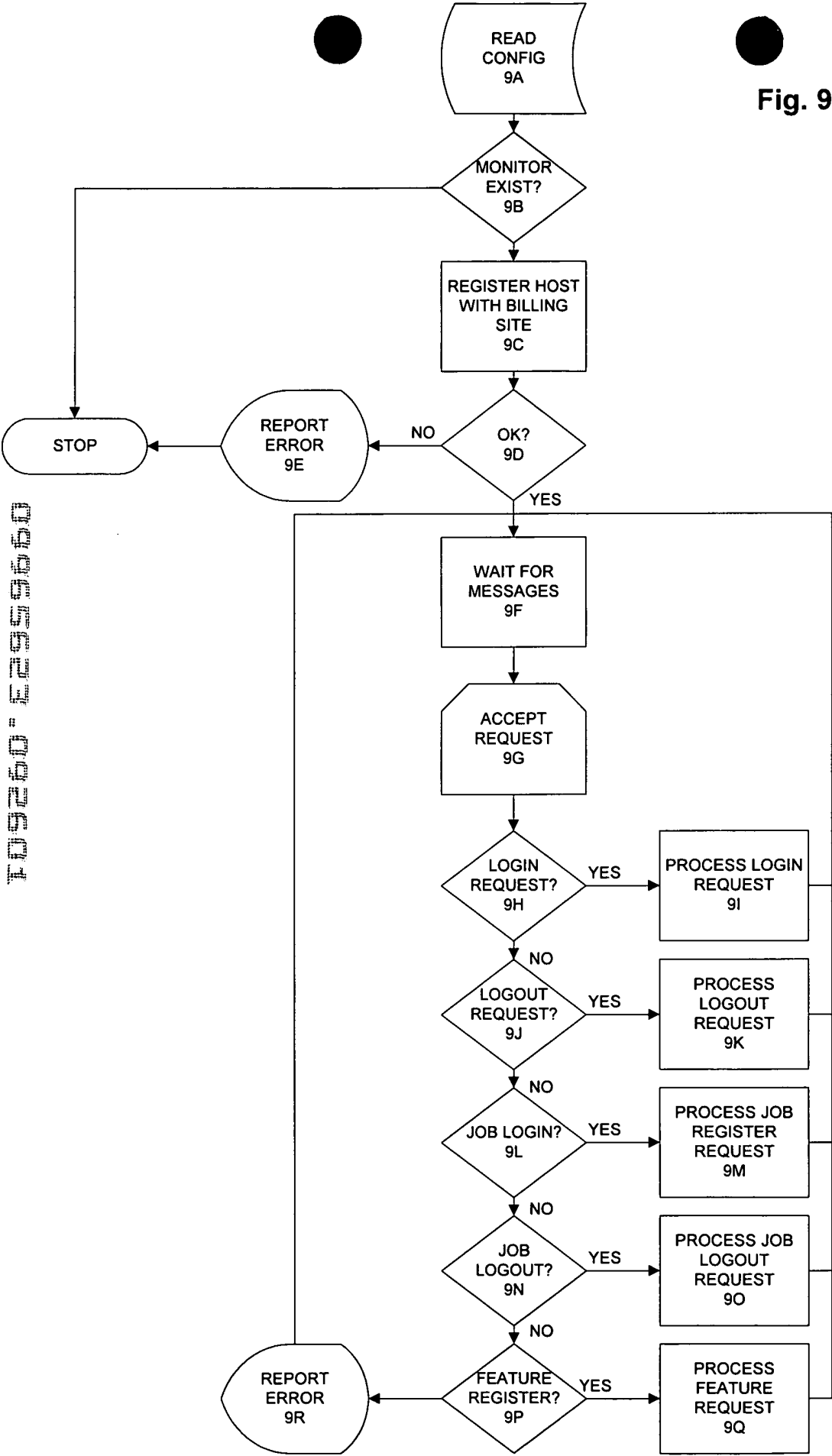


SEND FEATURE POOL  
AND PROCESS REPLY  
7E

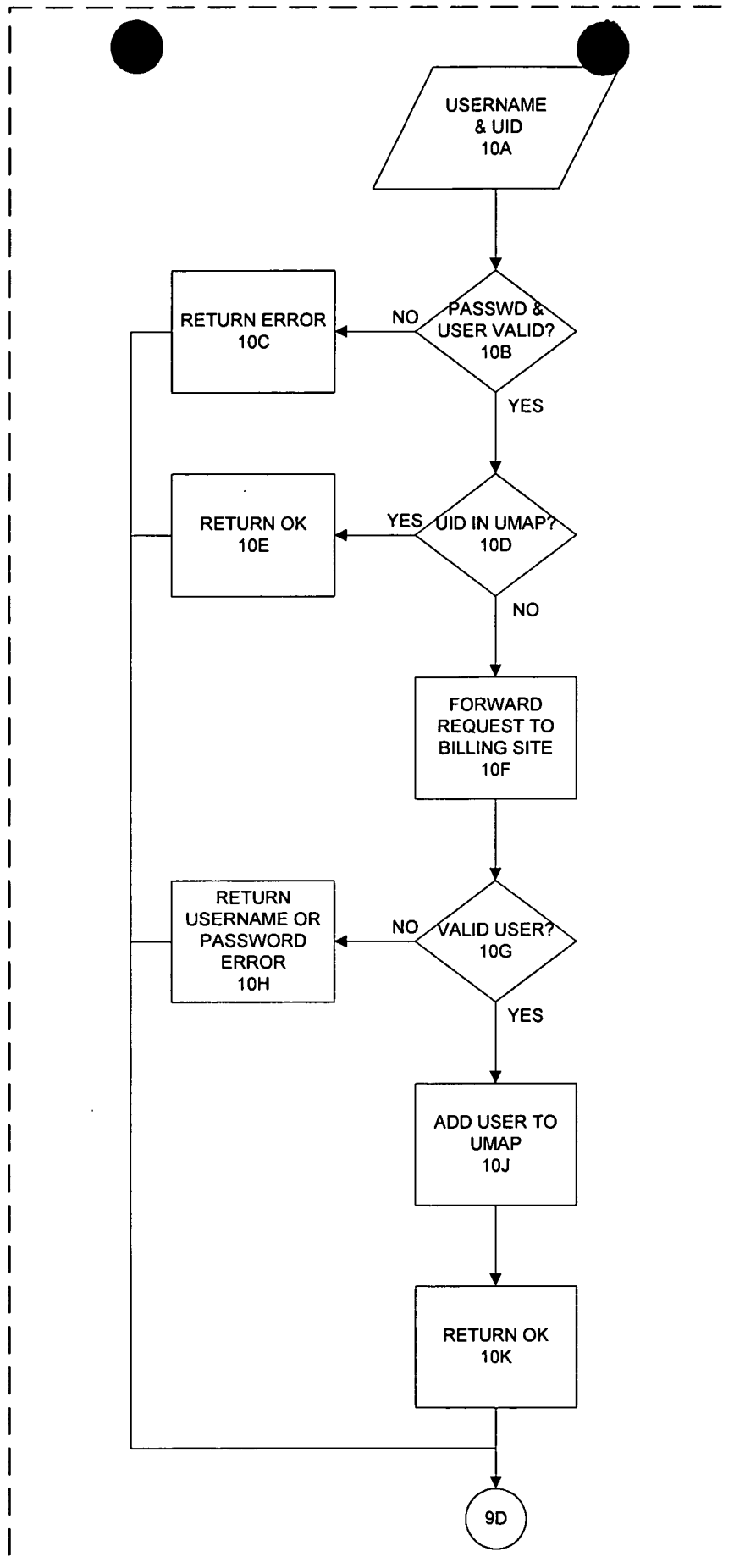
Fig. 8

Fig. 9

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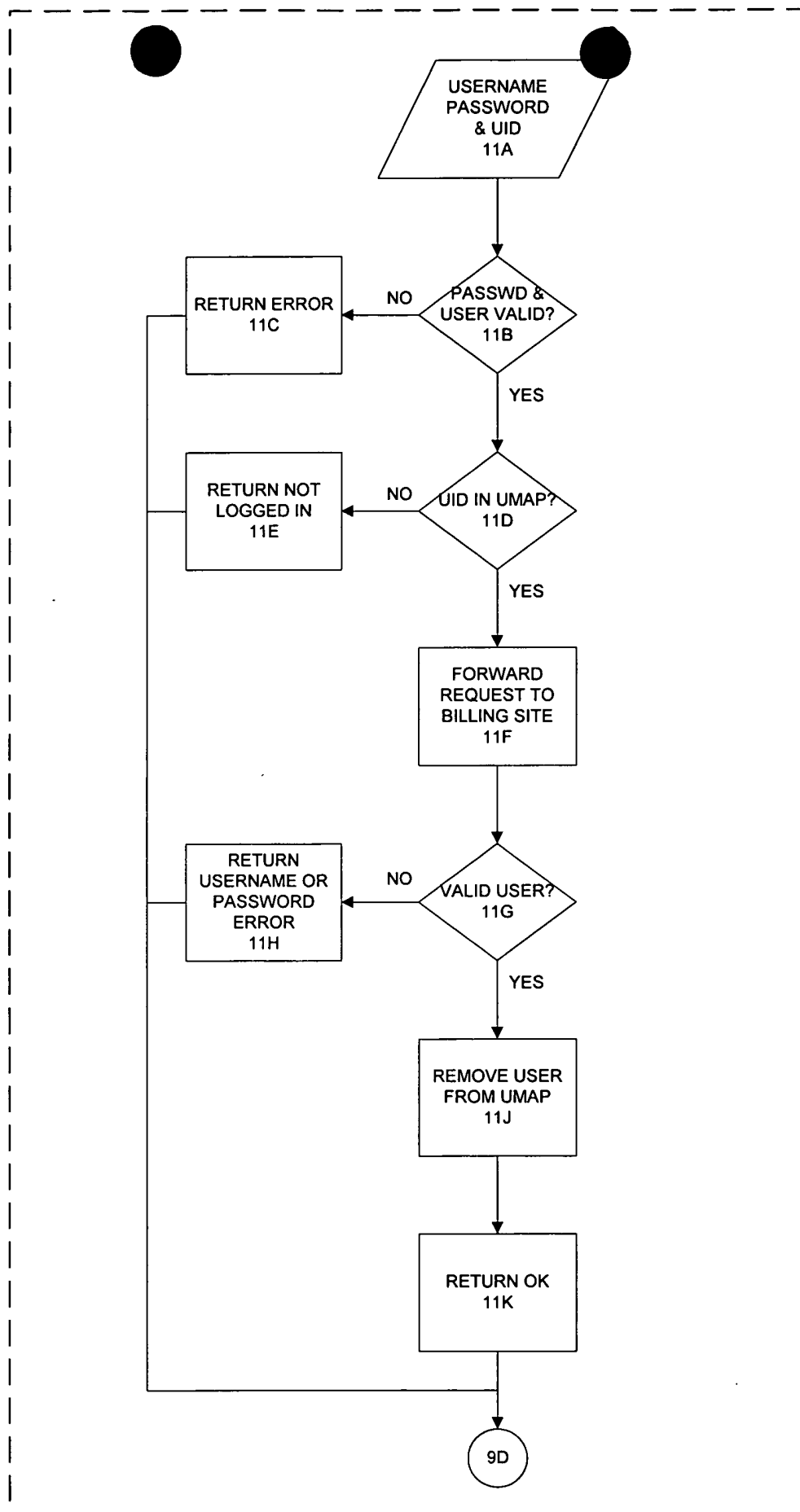


PROCESS USER LOGIN  
REQUEST 9I

Fig. 10



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PROCESS USER  
LOGOUT REQUEST 9K

Fig. 11

109260-22959660

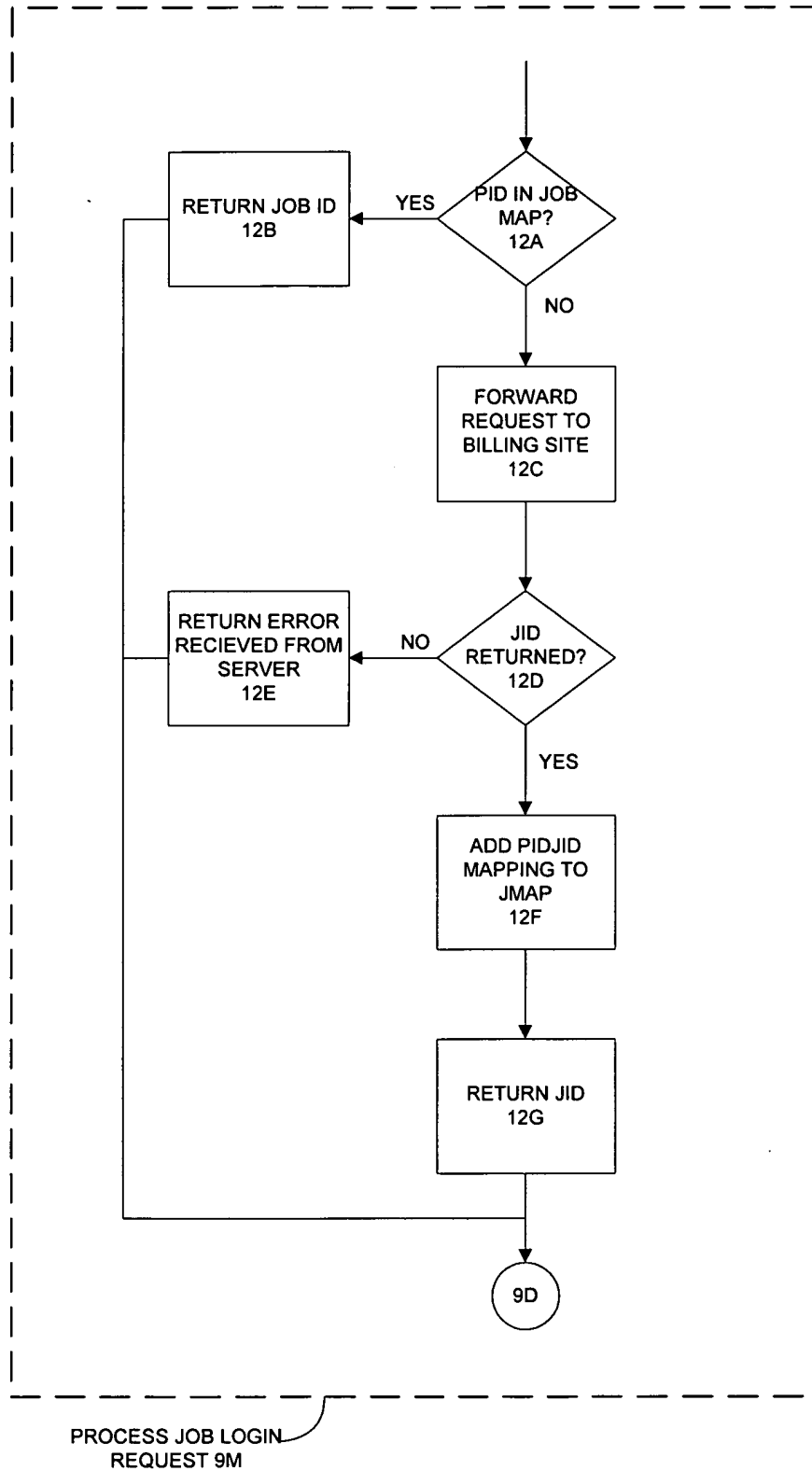


Fig. 12

TD9260-E2959660

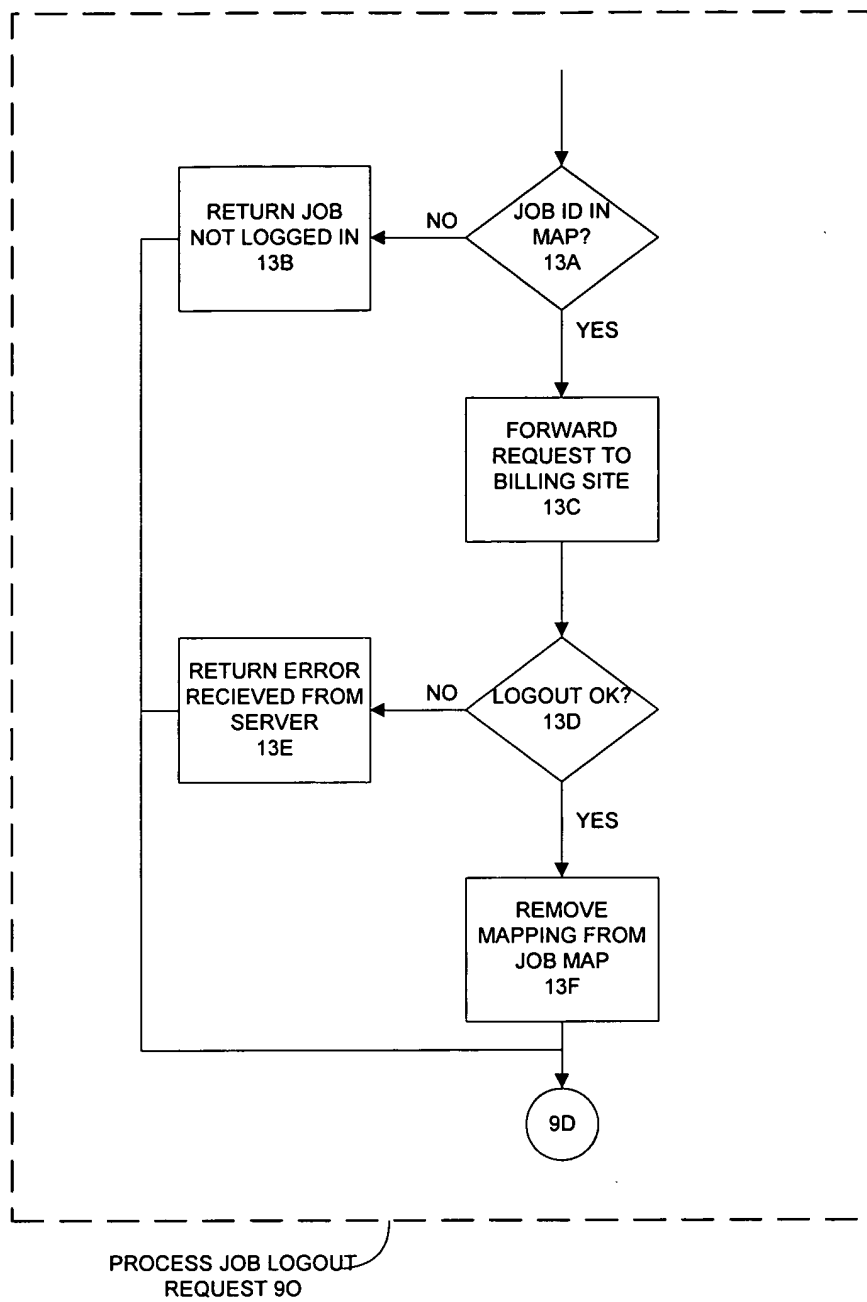
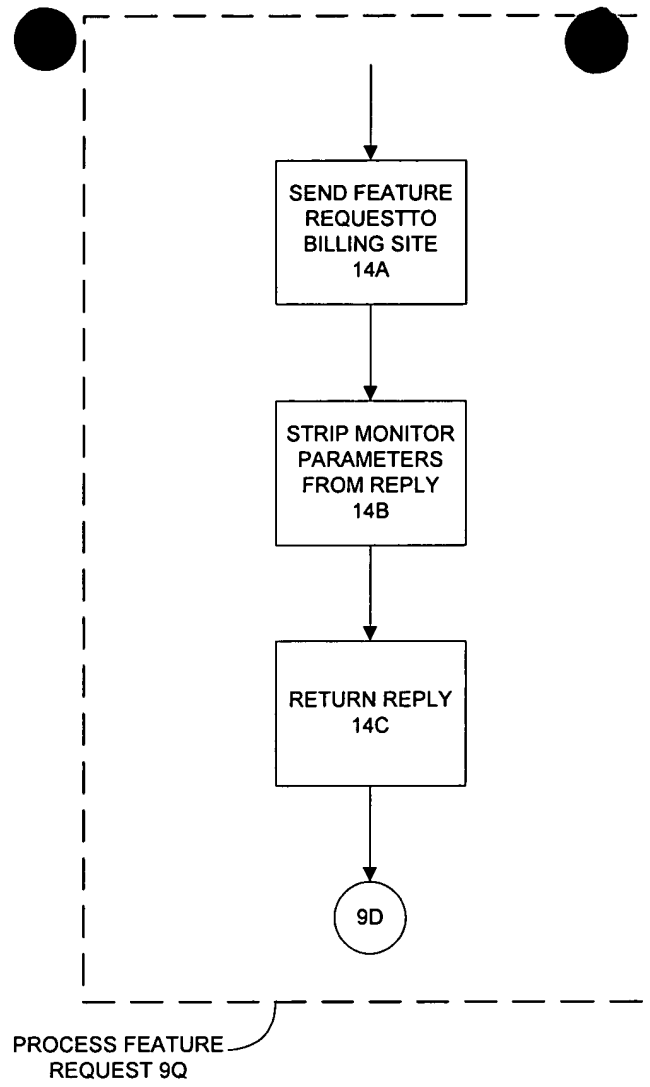


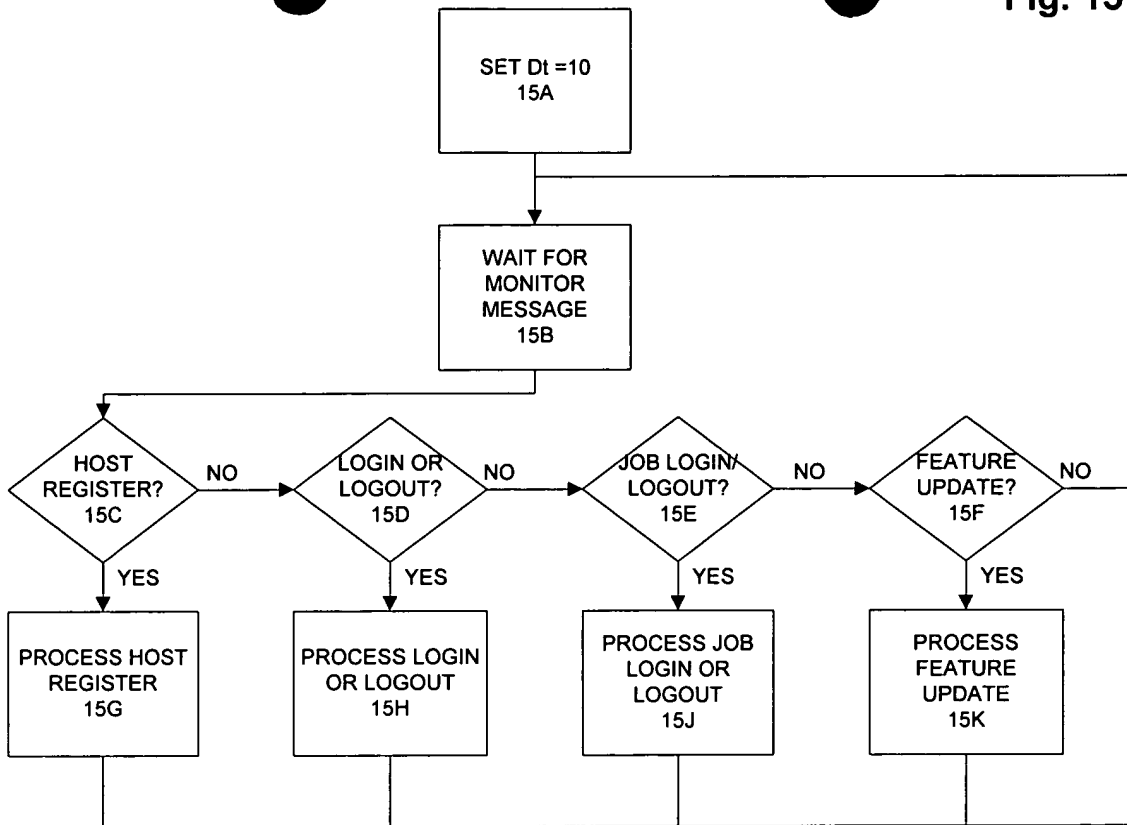
Fig. 13

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**Fig. 14**

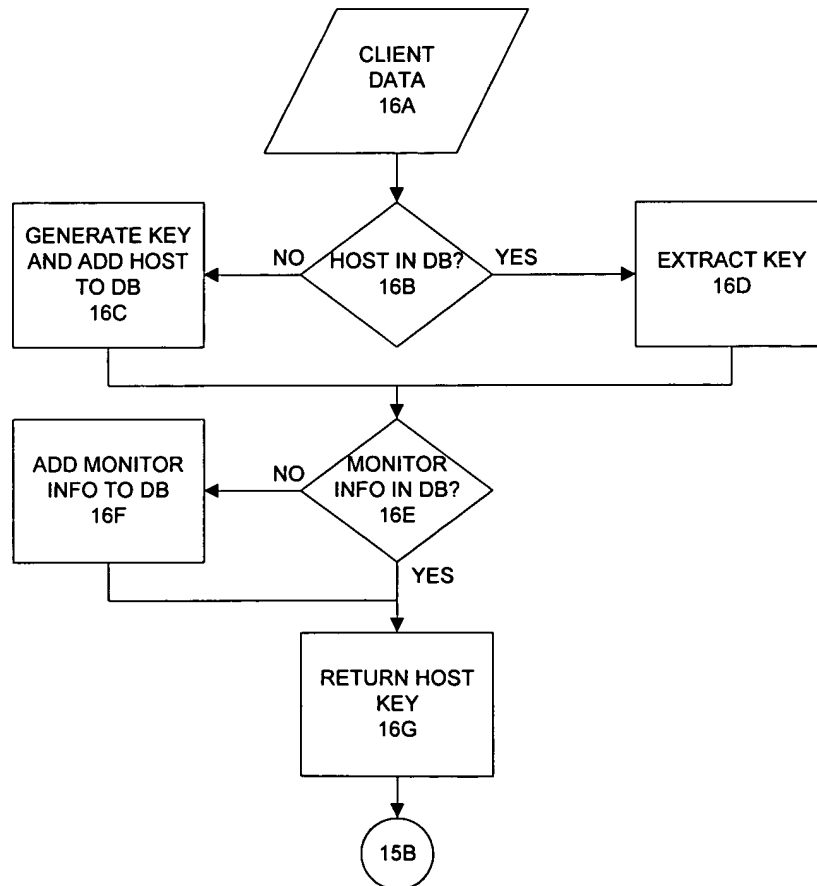
Fig. 15



METERING SERVER 3C

PROCESS HOST REGISTER 15G

Fig. 16



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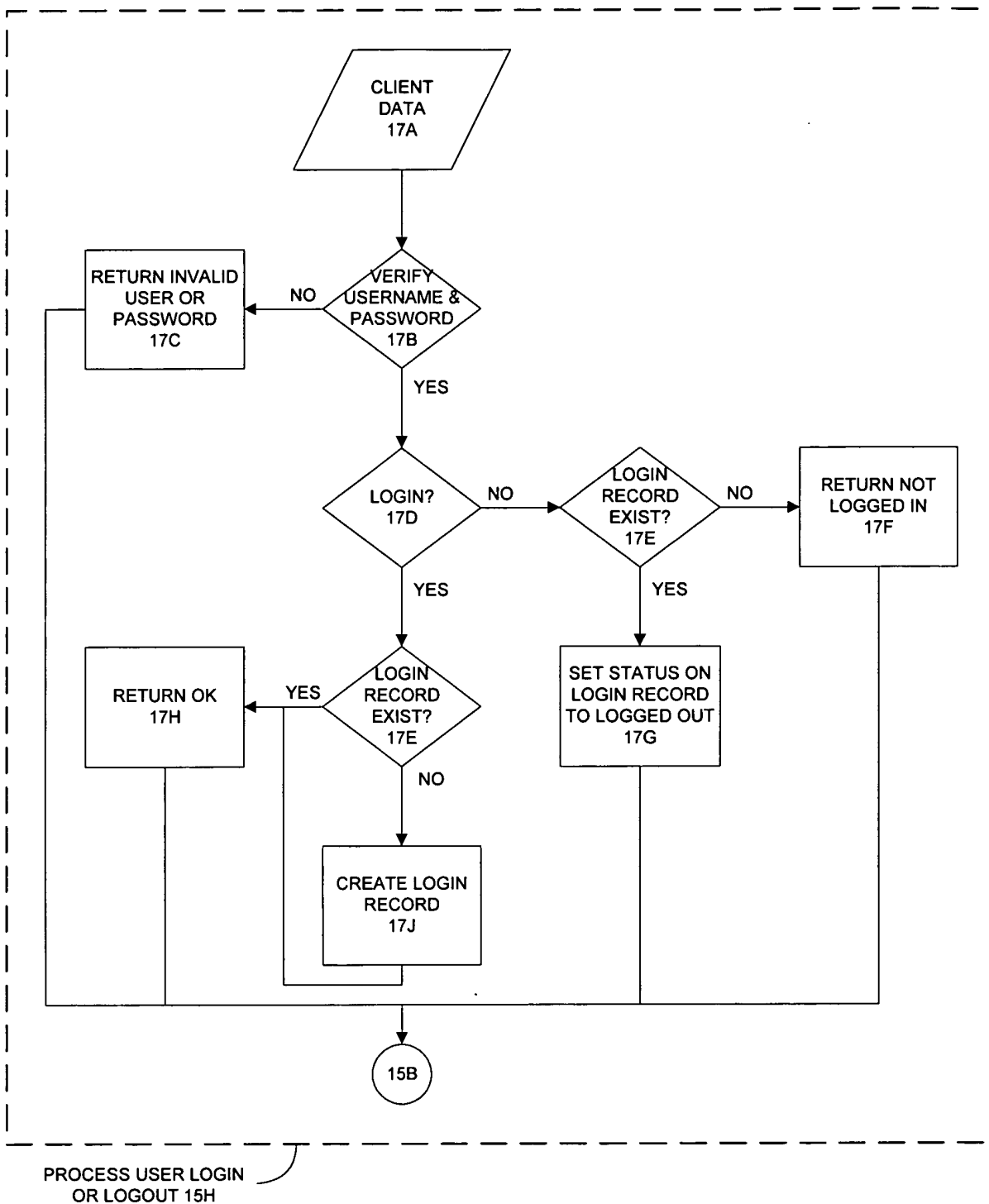
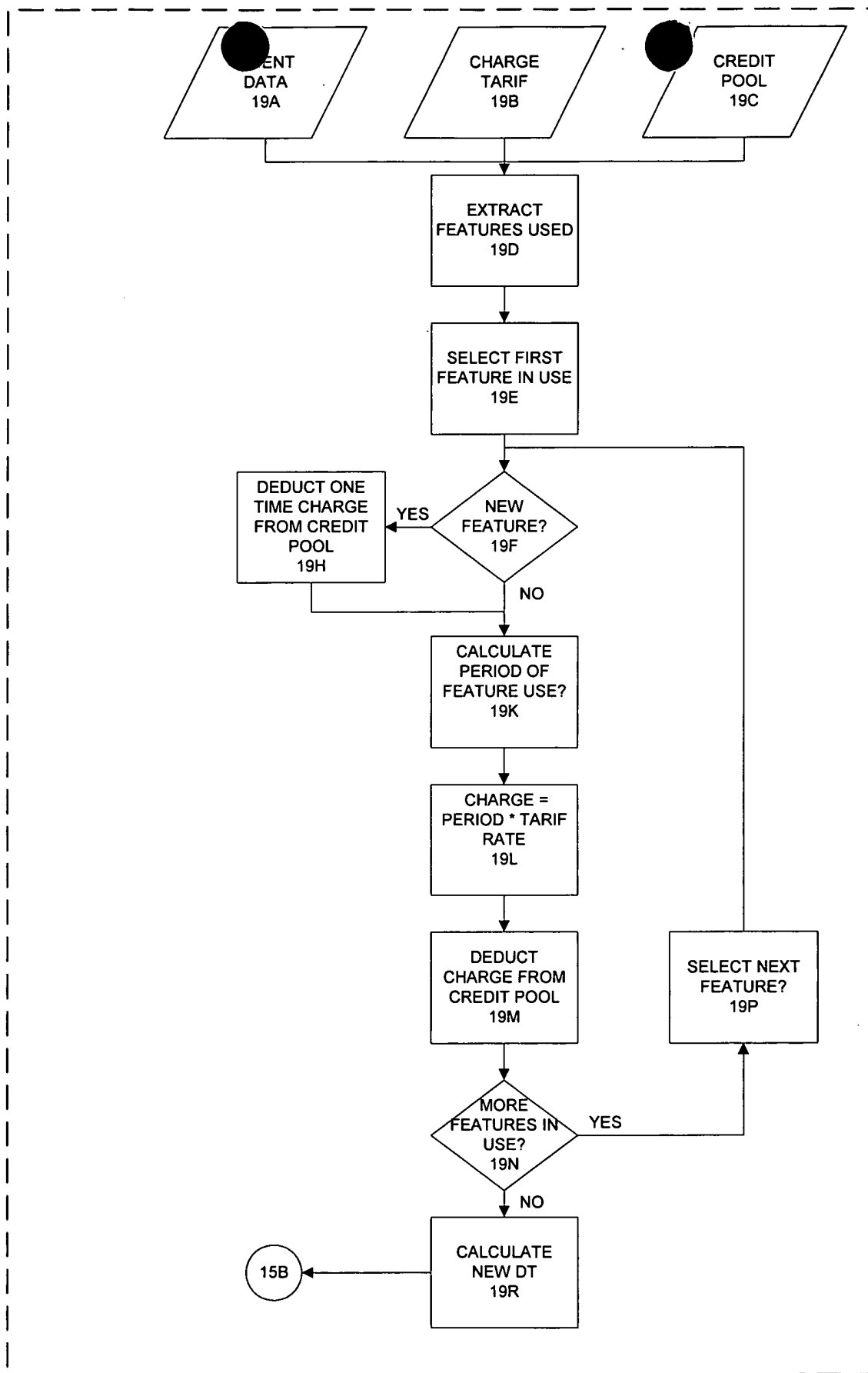


Fig. 17

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graph TD
    Start([CLIENT DATA  
18A]) --> Decision1{JOB RECORD  
EXIST?  
18B}
    Decision1 -- YES --> Decision2{JOB LOGOUT?  
18C}
    Decision1 -- NO --> Process1[ASSIGN KEY  
AND CREATE  
JOB RECORD  
18E]
    Decision2 -- YES --> Process2[FLAG JOB  
LOGGED OUT  
18G]
    Decision2 -- NO --> Process3[EXTRACT JOB  
KEY  
18D]
    Process1 --> Process4[RETURN JOB  
KEY  
18F]
    Process3 --> Process4
    Process2 --> Process5[RETURN  
LOGOUT OK  
18H]
    Process4 --> End((15B))
    Process5 --> End
  
```

**Fig. 18.**



PROCESS FEATURE  
REQUEST 15K

Fig. 19